

940,380.

Witnesses

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ADJUSTABLE SHADE-HANGER.

940,380.

Specification of Letters Patent.

Patented Nov. 16, 1909.

Application filed November 30, 1908. Serial No. 465,273.

To all whom it may concern:

Be it known that I, WILLIAM B. CASWELL, citizen of the United States, residing at Newport, in the county of Newport and State of Rhode Island, have invented certain new and useful Improvements in Adjustable Shade-Hangers, of which the following is a specification.

This invention comprehends certain new and useful improvements in window attachments, relating more particularly to an improved shade hanger, and the invention has for its object a simple, durable and efficient construction of device of this character which is susceptible of being expeditiously and quickly operated by a child or other inexperienced person, to shift the shade into different vertically adjusted positions relative to the window, as may be desired to admit light from the upper portion of the window exclusively, or to afford means of ventilating the room through the upper portion of the window, without the liability of the shade interfering with the same, the device possessing certain other advantages that will become at once apparent as the invention is hereinafter disclosed, over the ordinary devices of this character in general use.

With this and other objects in view that will more fully appear as the description proceeds, the invention consists in certain constructions and arrangements of the parts that I shall hereinafter fully describe and then point out the novel features thereof in the appended claims.

For a full understanding of the invention and the merits thereof, and to acquire a knowledge of the details of construction, reference is to be had to the following description and accompanying drawing, in which:

Figure 1 is a view in elevation, illustrating the application of my invention; Fig. 2 is a horizontal sectional view, the section being taken on the line 2—2 of Fig. 1; Fig. 3 is a detail perspective view of one end of the supporting bar, showing the slide engaged in the guideway; Fig. 4 illustrates the catch for engaging the cords; and, Fig. 5 is a detail view illustrating the manner of applying the suspension cord to the double pulley to provide a loop to which the regulating cord is attached.

Corresponding and like parts are referred to in the following description and indicated in all the views of the drawing, by the same reference characters.

My improved shade hanger is designed to be applied to a window frame A of the usual or any approved construction, and the device consists essentially in a supporting bar 1 which is disposed transversely of the window frame upon the inside of the window, and which has its ends overlapping the facing of the frame, as best seen in Fig. 1. The extremities of the supporting bar are perpendicularly and forwardly disposed to constitute arms 2 which are suitably slotted or otherwise formed to receive the gudgeons of an ordinary spring roller 3 about which the shade proper is arranged to be wound and unwound as desired. The opposite ends of the supporting bar 1 are equipped short of the arms 2 with slide brackets 4 which, in the present instance, are composed of two perpendicularly disposed members 5 and 5^a, the members 5 being arranged in the same plane as the plane of the bar 1, and being doubled upon themselves to form upwardly facing clips 6 in which the bar is designed to rest, and in which it is detachably retained through the instrumentality of screws or similar fastening members 7 passing there-through. The other members 5^a project perpendicularly and rearwardly from the bar 1 and terminate at their rear edges in beads 8 that work in vertically disposed guideways 9 which are substantially in the form of a split ring in cross section, and which are secured to the opposing sides of the window frame A and engage the beads to connect the slide brackets 4 to the guideways, while at the same time admitting of their vertical movement therein, as is required to effect the vertical adjustment of the shade.

In order to render the shade hanger susceptible of application to window frames of different widths, the slide brackets 4 are preferably attached to the bar 1 so as to be capable of being moved toward or away from each other to suit the distance between the guideways, and in the present instance this is attained by mounting the fastening means 7 in slots 10 formed in the opposite ends of the supporting bar 1 to permit a limited movement of said brackets relative thereto. The scope of the hanger is further

increased by constructing the bar 1 in such a manner that it may be extended to accommodate shades of different widths, such object being attained by forming the bar of two sections 11 which are adjustably secured together at their inner ends by a pin and slot connection.

As the preferred means for maintaining the slide brackets 4 in adjusted position in the guideways 9 and conveniently effecting the movement of the former in the latter, I provide a suspension cord 12 which is secured at one end to one of the slide brackets 4, preferably to the member 5^a thereof, as shown in Fig. 3. This cord 12 then passes upwardly around a single sheave 13 mounted at the adjacent upper corner of the window frame A, and thence extends transversely across the latter and engages one wheel of a double pulley 14, the cord extending downwardly below this pulley to constitute a loop 12^a, and then passing upwardly around the other wheel of the pulley and thence extending downwardly with its other end connected to the corresponding slide 4. A regulating or hand cord 18 is secured at one end to the loop 12^a and is pendent therefrom with its other end terminating in convenient reach of the operator. Intermediate of its ends, the regulating cord is designed to be detachably engaged by any suitable means, and in the present instance is passed through a catch 15 which is secured to the corresponding side of the window frame. A catch is mounted in a housing, and consists essentially of a clamp 17 that is formed in its edge adjacent to the regulating cord, with two vertically spaced cam surfaces. The lowermost cam surface is preferably serrated, and the clamp 17 is pivoted in proximity to the upper end thereof and near the said edge of the clamp so that the upper portion of the latter tends to swing by gravity away from the cord, which results in the lowermost cam surface being forcibly held in engagement therewith in order to prevent the cord from slipping through the catch, and thereby suspending the shade in the desired adjusted position. When the upper portion of the clamp is swung toward the cord to release the lower cam surface from the same, it will be observed that the upper cam surface will frictionally engage the cord to retard the movement of the same. Below the clamp, the regulating cord passes around the guide wheel 16.

In the practical use of a shade hanger embodying the improvements of my invention, when the shade is supported at the upper end of the window frame, and it is desired to lower the shade for some purpose, the clamp 17 is turned to disengage the teeth thereof from the regulating cord 18 which is then allowed to slip through the catch 15 as much as is required to lower the

supporting bar 1 into adjusted position. It is to be observed that, inasmuch as the regulating cord is adapted to control both ends of the suspension cord 12, the two slides 4 move an equal distance in the respective guideways 9, so as to support the shade even, that is, in substantially horizontal position. After adjustment of the regulating cord, the toothed clamp 17 is then returned to its normal position to engage the same and hold the supporting bar 1 effectually against any accidental movement, while the shade proper may be wound and unwound upon the roller without any liability of displacing the same from its position relative to the window frame. In order to return the shade roller to the upper end of the window frame, it is only necessary to grasp the extremity of the regulating cord 18 and draw the same downwardly through the catch 15, such downward movement automatically effecting the disengagement of the cam from the cord, to admit of the latter slipping freely through the catch as much as desired, whereupon the cam again engages the cord, as will be obvious.

From the foregoing description, in connection with the accompanying drawing, it will be apparent that I have provided an improved shade hanger which may be advantageously employed in connection with the windows of school rooms, office buildings, public buildings, dwelling houses or the like; which is neat in appearance and does not detract from the appearance of the window frame, and which consists of comparatively few parts that are simple and durable in construction and may be easily and cheaply manufactured.

Having thus described the invention, what I claim is:

1. In a shade hanger, the combination of parallel guideways, slides consisting of perpendicularly arranged members one of which terminates in a bead movable longitudinally in the guideways, the other members of the slides being disposed transversely of the guideways and formed with vertically facing clips, a shade support positioned in the clips and formed in proximity thereto with slots, fastening elements passed through the members of the clips and the corresponding slots to adjustably connect the slides to the support, and means for maintaining the slides in different longitudinally adjusted positions in the guideways.

2. In a window fixture, the combination of vertical guide ways, slides consisting of angularly disposed members, one of which is arranged in the plane of the corresponding guide way and terminates in a bead movable longitudinally therein, the other members of the slides being laterally disposed in a plane intersecting the planes of the guide ways and being formed with vertically fac-

ing clips, a shade support constructed in
sections mounted in the respective clips and
formed with adjusting slots, detachable
fastening elements passed through the clips
5 and the adjusting slots, and means for sus-
pending the slides in different vertical po-
sitions in the guide ways.

In testimony whereof I affix my signature
in presence of two witnesses.

WILLIAM B. CASWELL.

Witnesses:

MARY C. CASWELL,
ANNIE E. CASWELL.